

Title (en)
VALVE ASSEMBLY

Publication
EP 0204392 B1 19891227 (EN)

Application
EP 86300804 A 19860206

Priority
• US 70385085 A 19850221
• US 74471085 A 19850614

Abstract (en)
[origin: EP0204392A1] A valve assembly is disclosed for permitting relatively free flow in a first direction and for preventing flow in the path in a second, opposite direction. The assembly includes a resilient flow regulator (54) including a pair of lips (56) arranged to define a normally closed slit (62) at the outer ends of the lips. An annular flange (66) extends outwardly about the opposite end of the regulator. A housing outlet portion (50) defines a housing interior having an outlet port and an open sealing end, with an annular collar (76) disposed outwardly about the sealing end. The regulator is disposed within the housing outlet portion with the flange contained within the collar. A cover plate (84) is attached to the collar for securing the regulator and for sealing the housing. The housing outlet portion defines a first sealing ring (78) and the cover plate defines a second sealing (96) such that the first and second sealing rings are disposed on opposite sides of the flange. At least one of the sealing rings includes a bevel, defined so that the flange (66) is compressed between the sealing rings (78, 96) to a greater degree along the portion of the flange adjacent the lip bases than the portion of the flange adjacent the collar. The beveled surfaces thereby center and align the regulator within the housing and prevent distortion in the flange region of the regulator from being transmitted to the outer ends of the lips.

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A61M 5/14; F16K 15/14

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F16K 15/144 (2013.01 - EP US); **F16K 15/147** (2013.01 - EP); **F16K 15/1472** (2021.08 - US); **Y10T 137/7882** (2015.04 - EP); **Y10T 137/7886** (2015.04 - EP)

Citation (examination)
• EP 0191969 A1 19860827 - VERNAY LABORATORIES [US]
• EP 0139347 A1 19850502 - VERNAY LABORATORIES [US]

Cited by
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